

CERTIFICATE OF MAILING

I hereby certify that this Information Disclosure Statement is being deposited with the U.S. Postal Service in an Express Mail Envelope, Certificate No. EV291967410, addressed to Mail Stop Patent Application, Commissioner for Patents, P. O. Box 1450, Alexandria, Virginia 22313-1450 on this 27<sup>th</sup> day of October, 2003.

Signed: \_\_\_\_\_

John A. Molnar, Jr.

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of  
Steven M. Powell, et al

Serial No.

Filed: Concurrently Herewith

For: Tubular Polymeric Composites For  
Turbine and Hose Construction

Examiner:

Group:

INFORMATION DISCLOSURE  
STATEMENT UNDER 37 C.F.R. §1.97

Mail Stop Patent Application  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

Applicant(s) wish to disclose the following information:

REFERENCES

- ☒ The Applicant(s) wish to make of record the references listed on the attached Form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check is attached in the amount required under 37 CFR § 1.17(p).

#### RELATED CASES

- ☒ Attached is a list of applicant's pending applications or issued patents which are thought to be related to the present application.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

#### CERTIFICATION

The undersigned certifies that

- ☐ Each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

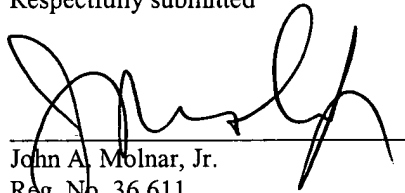
#### PETITION

- ☐ Applicant(s) hereby request consideration of the attached information. A check is attached in the amount of the Petition fee required under 37 CFR §1.17(i)(1).

#### DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to **Deposit Account No. 16-0325**. A duplicate copy of this sheet is enclosed.

Respectfully submitted



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**RELATED CASES**

<b>Serial No.</b>	<b>Inventor</b>	<b>Title</b>	<b>Filing Date</b>
<b>60/429,512</b>	<b>Steven M. Powell Ronald Moner James Johnston</b>	<b>Tubular Polymeric Composites for Tubing and Hose Construction</b>	<b>November 26, 2002</b>

Subst. Form PTO-1449 APPLICANT'S INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 2802-159-030	Serial No.:
	Applicant: Steven Powell, et al	
	Filing Date: Concurrently Herewith	Group:

## U.S. PATENT DOCUMENTS

Initial*		Document No.	Date	Name	Class	Subcl.	Filing Date
	AA	2,624,366	01/06/53	PUGH			
	AB	3,245,431	04/12/66	COE			
	AC	3,487,858	01/06/70	HANBACK			
	AD	3,540,486	11/17/70	FLOUNDERS, ET AL			
	AE	3,554,237	01/12/71	PELLEY, ET AL			
	AF	3,557,873	01/26/71	OWENS, ET AL			
	AG	3,561,493	02/09/71	MAILLARD, ET AL			
	AH	3,566,924	03/92/71	AMBRUS			
	AI	3,637,015	01/25/72	HOLM			
	AJ	3,654,967	07/17/70	ATWELL			
	AK	3,682,201	08/08/72	ATWELL, ET AL			
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	AN	3,722,550	03/27/93	MATTHEWS			
	AO	3,729,028	04/24/73	HORVATH, ET AL			
	AP	3,773,089	11/20/73	CHUDGAR			
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	AR	3,790,419	02/05/74	ATWELL, ET AL			
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	AT	3,805,848	04/23/74	CHROW			
	AU	3,811,501	05/21/74	BURNETT, ET AL			
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	AW	3,881,975	05/06/75	KOCH			
	AX	3,889,716	06/17/75	LINHART			
	AY	3,890,181	06/17/75	STENT, ET AL			
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	BA	3,914,146	10/21/75	KOCH			
	BB	3,908,703	09/30/75	BOURNAZEL, ET AL			
	BC	3,932,559	01/13/76	CANTUR, ET AL			
	BD	3,977,440	08/31/76	PHILLIPPI			
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	BK	4,098,298	07/04/78	VOHRER			
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	BO	4,182,019	06/08/80	TALLY, ET AL			
	BP	4,213,485	07/22/80	OTTEWELL, ET AL			
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	BT	4,259,991	04/07/81	KUTNYAK			
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	BY	4,343,333	08/10/82	KEISTER			
	BZ	4,380,252	04/19/83	GRAY, ET AL			
	CA	4,384,595	05/24/83	WASHKEWICZ, ET AL			
	CB	4,396,797	08/02/83	SAKURAGI, ET AL			
	CC	4,399,319	08/16/83	ZINN			
	CD	4,444,707	04/24/84	SCHWARZ			
	CE	4,456,034	06/26/84	BIXBY			
	CR	4,558,740	12/17/85	YELLIG, JR.			
	CG	4,459,368	07/10/84	ANSELM			
	CH	4,463,779	08/07/84	WINK, ET AL			
	CI	4,518,196	05/21/85	FORSTER, ET AL			
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	CK	4,537,222	08/27/85	SCHWARZ			
	CL	4,553,568	11/19/85	PICCOLI, ET AL			
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	CY	4,739,801	04/26/88	KIMURA, ET AL			
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	DA	4,800,957	06/31/89	STEVENS, JR., ET AL			
	DB	4,831,498	05/16/89	BABA			
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	DD	4,862,924	09/05/89	KANAO			
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	DN	5,045,635	09/03/91	KAPLO, ET AL			
	DO	5,062,456	11/05/91	COOKE, ET AL			
	DP	5,076,329	12/31/91	BRUNNHOFER			
	DQ	5,107,070	04/21/92	BENN, SR., ET AL			
	DR	5,115,104	05/19/92	BUNYAN			
	DS	5,143,123	09/01/92	RICHARDS, ET AL			
	DT	5,167,259	12/01/92	BRUNNHOFER			
	DU	5,187,621	02/16/93	TACKLIND			
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	DW	5,232,645	08/03/93	RAMOS, JR.			
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	DY	5,252,782	10/12/93	CANTRELL, ET AL			
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	EA	5,284,184	02/08/94	NOONE, ET AL			
	EB	5,313,987	05/24/94	ROBER, ET AL			
	EC	5,346,290	09/13/94	ORCUTT			
	ED	5,358,011	10/15/94	STOCKTON, ET AL			
	EE	5,383,087	01/17/95	NOONE, ET AL			
	EF	5,392,374	02/21/95	GORIAN, ET AL			
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	EL	5,460,771	10/24/95	MITCHELL, ET AL			
	EM	5,469,892	11/28/95	NOONE, ET AL			
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	EO	5,500,257	03/19/96	KRAUSE, ET AL			
	EP	5,501,840	03/26/96	MANTOVANI, ET AL			
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	ER	5,609,962	03/11/97	OUHADI			
	ES	5,632,336	05/27/97	NOTZ, ET AL			
	ET	5,647,400	07/15/97	JANI, ET AL			
	EU	5,622,210	04/22/97	CRISMAN, ET AL			
	EV	5,678,611	10/21/97	NOONE, ET AL			
	EW	5,698,278	12/16/97	EMOND, ET AL			
	EX	5,731,541	03/24/98	BERND, ET AL			
	EY	5,743,304	04/28/98	MITCHELL, ET AL			
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	FB	5,918,640	07/06/99	ORCUTT			
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	FD	5,996,642	12/07/99	NOONE, ET AL			
	FE	6,066,377	05/23/00	TONYALI, ET AL			

	FF	6,069,215	05/30/00	ARAKI, ET AL			
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	FL	2003/0239509	07/24/03	Onder			

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		Document No.	Date	Country	Class	Subcl.	Translation?
	FM	973074	08/19/75	CANADA			
	FN	0 177 067	09/04/86	EPO			
	FO	0 182 391	28.05.86	EPO			
	FP	0 192 922	03.09.86	EPO			
	FQ	0 428 335	22.05.91	EPO			
	FR	0 629 114	14.12.94	EPO			
	FS	0 643 552	15.03.95	EPO			
	FT	0 866 108	23.09.98	EPO			
	FU	0 937 933	25.08.99	EPO			
	FV	0 976 544	02.02.00	EPO			
	FW	0 992 518	12.04.00	EPO			
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	FY	28 27 676	18.0-1.79	GERMANY			
	FZ	39 02 988	16.08.90	GERMANY			
	GA	39 36 534	17.05.90	GERMANY			
	GB	39 34 845	03.05.90	GERMANY			
	GC	41 18 023	12.12.91	GERMANY			
	GD	43 19 965	15.12.94	GERMANY			
	GE	89 12 397.2	18.01.90	GERMANY			
	GF	2 270 956	12.12.75	FRANCE			
	GG	2 779 798	17.12.99	FRANCE			
	GH	10-169854	26.08.98	JAPAN			YES
	GI	2 239 503	03.07.91	UNITED KINGDOM			
	GJ	2 367 108	27.03.2002	UNITED KINGDOM			
	GK	WO95/22576	24.08.95	WIPO			
	GL	WO01/94110	13.12.2001	WIPO			
	GM	WO03/057752	17.07.2003	WIPO			

#### OTHER PRIOR ART

	GN	Data Sheet of Degussa AG for Vestamid® X7297. Applicants request the Examiner to consider this reference as prior art under 102(a), however, Applicants respectfully reserve the right to supplement this Information Disclosure Statement and take a contrary position should it be necessary.
	GO	Atochem Data Sheet. Applicants request the Examiner to consider this reference as prior art under 102(a), however, Applicants respectfully reserve the right to supplement this Information Disclosure Statement and take a contrary position should it be necessary.
	GP	Daikin America, Inc. Technical Marketing Information, dated July 24, 2001.
	GQ	Parker Fluid Connectors Catalog 4660 for Parflex Thermoplastic Hose, Tubing, Fittings and Accessories, dated March 2000.
	GR	Parker Fluid Connectors Bulletin 4452-B16 for Duo-Coil Tractor/Trailer Coiled Air Brake Assembly, dated January, 1994.

GS	Parker Fluid Connectors Bulleting 4452-814 for Parker Brake Coil, Tractor/Trailer Coiled Air Brake Hose Assembly, dated January 1979.
GT	Equipment Engineering Article dated October, 1999 entitled Industry Gearing for Longer, More Complex Umbilicals".
GU	Superflex Ltd. Catalog 693 for P.V.C. Flexible Reinforced Hose. Applicants request the Examiner to consider this reference as prior art under 102(a), however, Applicants respectfully reserve the right to supplement this Information Disclosure Statement and take a contrary position should it be necessary.
GV	Arnitel® Copolyester Elastomers Product Characteristics dated January 2001.
GW	Arnitel® Copolyester Elastomers General Information on Applications and Properties.
GX	Superflex Ltd. Catalog 693 for P.V.C. Flexible Reinforced Hose. Applicants request the Examiner to consider this reference as prior art under 102(a), however, Applicants respectfully reserve the right to supplement this Information Disclosure Statement and take a contrary position should it be necessary.
GY	Arnitel® Property Data for Polyether-Ester Elastomer dated August 25, 2000.
GZ	DuPont Packaging Product Information - Bynel® resins ©2002.
HA	DuPont Packaging Product Information - Bynel® resins - More Choices, More Options, More Answers ©2002.
HB	DuPont Bynel Resins All In Synonym List By N042, revised June 23, 2000.
HC	Dupont Packaging Product Information Bynel® adhesive resins ©2002.
HD	Noveon, Inc. Product Portfolio dated September 1999.
HE	Eight (8) pictures of St. Gobian composite tubing having, from outer diameter to inner diameter, nylon, urethane, yarn, nylon and nylon layers.
HF	Synflex® Product Standard, Standard Service Coiled Air, dated May 24, 2001.

Examiner:

Date Considered:

\*EXAMINER: Initial if reference considered, whether or not citation is in conformation with MPEP 609; draw line through citation if in conformance and not considered. Include copy of this form with next communication to applicant.

360/22971ALA.20G